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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,028	11/16/2003	Timothy A. Daniels	RPG	1027
23217 75	90 02/07/2006		EXAMINER FAN, HONGMIN	
GLENN L. WI P.O BOX 951	EBB			
CONIFER, CO	80433		ART UNIT	PAPER NUMBER
			2631	
			DATE MAILED: 02/07/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/707,028	DANIELS ET AL.			
Office Action Summary	Examiner	Art Unit			
	Hongmin Fan	2631			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING E - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION. 136(a). In no event, however, may a red will apply and will expire SIX (6) MON te, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 16 l	November 2003.				
· — · · · — · · · · — — · · · · · · · ·	is action is non-final.				
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closed in accordance with the practice under	·				
Disposition of Claims	·				
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application	n.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) 1-22 is/are rejected.					
7) Claim(s) 122 is/are objected to.					
8) Claim(s) are subject to restriction and/	or election requirement.				
Application Papers					
9) The specification is objected to by the Examin					
10) The drawing(s) filed on is/are: a) ac					
Applicant may not request that any objection to the	e drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre					
11) The oath or declaration is objected to by the E	Examiner. Note the attached	d Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the principle application from the International Burest. * See the attached detailed Office action for a list. 	nts have been received. Into have been received in A Into ority documents have been Into au (PCT Rule 17.2(a)).	application No received in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)	• —	Summary (PTO-413) s)/Mail Date			
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 	5\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	nformal Patent Application (PTO-152)			

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DETAILED ACTION

Claim Objections

1. Claim 12 is objected to because of the following informalities: at the beginning, sentence "The system of claim 2" should be -- The system of claim 1--.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-6, 10-15 and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cline (US 3634881) in view of Carlson (US 4100537).

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As to claim 1, referring to Fig. 1, Cline disclosed a high-pressure and low-pressure warning system comprising a low pressure switch 13, a high pressure switch 12 and a alert unit 30 connected to the pressure switches for displaying an alert when the pressure is either below or above preset limits. Cline did not disclose a manifold for connection to the pressurized environment. Having a manifold would allow the pressure switches to be mounted in places other than directly to the pressure environment, which provide flexibility and is for maintenance. Carlson teaches a pressure monitor comprising a manifold 16 with a pressure gauge 20 connected to the pressurized tank. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Carlson's manifold into Cline's system in order to provide flexibility as to where to locate the pressure switches.

As to claim 2, Cline did not disclose a pressure gauge. To have a pressure gauge will show user the pressure measurement in the pressure environment. Carlson teaches a pressure monitor comprising a manifold 16 with a pressure gauge 20.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Carlson's pressure gauge into Cline's system in order to provide user up-to-date pressure measurement.

As to claims 3-4, Cline did not disclose the alert displays are LED. Having LED would save energy and have longer lifetime. Carlson teaches a pressure monitor comprising a plurality of LEDs 32-36 as alert displays for low and high pressure warning. Therefore, it would have been obvious to one of ordinary skill in the art at the

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time of the invention to incorporate Carlson's LEDs into Cline's system in order to save energy and have longer lifetime.

As to claims 5-6, Cline did not disclose the pressure gauge is either mechanical or analog. Mechanical and analog gauge is simple in structure and cheaper to make. Carlson teaches a pressure monitor comprising a pressure gauge 20 having a movable arm 40 (col. 3, line 8), i.e., it is mechanical and analog. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Carlson's mechanical and analog gauge into Cline's system in order to save cost.

As to claim 10, Cline disclosed a coolant system for an engine (col. 2, lines 8-11).

As to claim 11, the claim is interpreted and rejected as claims 1 and 2 stated above.

As to claim 12-13, the claims are interpreted and rejected as claims 3-4 stated above.

As to claim 14-15, the claims are interpreted and rejected as claims 5-6 stated above.

As to claim 18, the claim is interpreted and rejected as claim 10 stated above.

As to claim 19, the claim is interpreted and rejected as claim 1 stated above.

As to claim 20, the claim is interpreted and rejected as claim 2 stated above.

3. Claims 7 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cline in view of Carlson, further in view of Nancarrow et al (US 4969332).

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As to claim 7, neither Cline nor Carlson disclosed a digital pressure gauge.

Digital gauge will give more accurate measurement. Nancarrow et al teaches a controller for an engine with digital pressure gauge (col. 9, lines 36-38). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to use a digital pressure gauge in Cline's system in order to have a more accurate measurement.

As to claim 16, the claim is interpreted and rejected as claim 7 stated above.

4. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cline in view of Carlson, further in view of Angell et al (US Pub. 2002/0085366).

As to claim 8, all the claimed subjects have been discussed except an LED is mounted on the pressure gauge. LED is used a light source so that the gauge will be readable in the dark. Referring to Fig. 1 and 2, Angell et al teach a panel lit cluster comprising a LED 36 to illuminate a gauge 22. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Angell's LED lighted gauge into Cline's system in order to have the gauge being readable in the dark.

5. Claims 9, 17, 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cline in view of Carlson, further in view of Salmon et al (US 5406303).

As to claim 9, neither Cline nor Carlson disclosed the pressure gauge includes a fluorescent dye with an ultraviolet light source. Fluorescent dye with an ultraviolet light

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source will enable the pressure gauge being visible in dark. Referring to Fig. 4, Salmon et al teaches instrument display system comprising a fluorescent display unit for speed gauge. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate Salmon's fluorescent display into the system of Cline and Carlson in order to enable the pressure gauge being visible in dark.

As to claim 17, the claim is interpreted and rejected as claim 9 stated above.

As to claims 21 and 22, the claims are interpreted and rejected as claim 1 and 9 stated above.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hongmin Fan whose telephone number is 571-272-2784. The examiner can normally be reached on Monday - Friday, 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Wu can be reached on 571-272-2964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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